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A hierarchy-aware approach to faceted classification of object-oriented components

Full text [Pdf \(310 KB\)](#)**Source** **ACM Transactions on Software Engineering and Methodology (TOSEM)** [archive](#)Volume 8 , Issue 3 (July 1999) [table of contents](#)

Pages: 215 - 262

Year of Publication: 1999

ISSN:1049-331X

Authors [E. Damiani](#) Univ. Statale di Milano, Polo di Crema, Crema, Italy
[M. G. Fugini](#) Politecnico di Milano, Milan, Italy
[C. Bellettini](#) Univ. Statale di Milano, Milan, Italy**Publisher** ACM Press New York, NY, USA**Additional Information:** [abstract](#) [references](#) [citations](#) [index terms](#) [review](#) [collaborative colleagues](#) [peer to peer](#)**Tools and Actions:** [Discussions](#) [Find similar Articles](#) [Review this Article](#)
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↑ ABSTRACT

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conventional object libraries, the characteristics are extracted semiautomatically from class interfaces. Characteristics are term pairs, weighted to represent "how well" they describe component behavior. The set of characteristics associated with a given component forms its software descriptor. A descriptor base is presented where descriptors are organized on the basis of structured relationships, such as similarity and composition. The classification is supported by a thesaurus acting as a language-independent unified lexicon. The descriptor base is conceived for developers who, besides conventionally browsing the descriptors hierarchy, can query the system, specifying a set of desired functionalities and getting a ranked set of adaptable candidates. User feedback is taken into account in order to progressively ameliorate the quality of the descriptors according to the views of the user community. Feedback is made dependent of the user typology through a user profile. Experimental results in terms of recall and precision of the retrieval mechanism against a sample code base are reported.

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

D. Vijay Rao , V. V. S. Sarma, A rough-fuzzy approach for retrieval of candidate components for software reuse, *Pattern Recognition Letters*, v.24 n.6, p.875-886, March 2003

Fabio A. Schreiber , Alberto Belussi , Valeria De Antonellis , Maria Grazia Fugini , Giuseppe Pozzi , Letizia Tanca , Luca Tosi, *The design of a web-geographical information system: an experience in the integration of territorial reclamation support services*, *Web-enabled systems integration: practices and challenges*, Idea Group Publishing, Hershey, PA, 2003

C. Bellettini , E. Damiani , M. G. Fugini, *User opinions and rewards in a reuse-based development system*, *Proceedings of the 1999 symposium on Software reusability*, p.151-158, May 21-23, 1999, Los Angeles, California, United States

↑ INDEX TERMS

Primary Classification:

H. Information Systems

↳ H.3 INFORMATION STORAGE AND RETRIEVAL

General Terms:

Documentation

Keywords:

code analysis, component repositories, component retrieval, software reuse, user feedback

↑ REVIEW

"Friedrich Gebhardt"

The task considered here is to index and retrieve software components from an object-oriented software library. Indexing is by verb-noun pairs, such as "Get Document" or "Restore Cursor." These descriptors, called features, are initially taken automatically from the software code: essentially, the system combines each method provided by the software component with its first argument. The details differ depending on the library type; libraries are either conventional software libraries or application frameworks. Each descriptor is given a weight. The hierarchy provided by the library is also exploited. The descriptors and weights may be changed by the application engineer. Consistency in the choice of features is essential, and is achieved, for instance, by a naming discipline in the software library. The retrieval index is divided into several parts, called facets, which are defined by the application engineer. A software component may have descriptors in one or more facets; identical descriptors may appear in several facets; and a search may cover one or more facets. An affinity between descriptors, wrongly called "synonymy," is computed for expanding queries. Some ideas for user feedback are added. The retrieval experiments described essentially use five queries on 95 software components. Unfortunately, the text is often unclear or incomplete. For instance, the definition of descriptors mentions elements C1 to CC without explaining what they mean. Some figures are incomprehensible, in part due to missing letters (probably because of some software incompatibility). While one may guess that "emove" should read "Remove," the meanings of "odiy" (Modify) and "D cIte" (DocItem) are harder to figure out, and other terms remain mysterious. *Online Computing Reviews Service*

↑ Collaborative Colleagues:

C. Bellettini: E. Damiani
M. G. Fugini

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1 QProber: A system for automatic classification of hidden-Web databases Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available:  pdf(3.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

2 Enabling dynamic content caching for database-driven web sites K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available:  pdf(319.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*

Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

3 Probe, count, and classify: categorizing hidden web databases Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available:  pdf(389.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

The contents of many valuable web-accessible databases are only accessible through search interfaces and are hence invisible to traditional web "crawlers." Recent studies have estimated the size of this "hidden web" to be 500 billion pages, while the size of the "crawlable" web is only an estimated two billion pages. Recently, commercial web sites have started to manually organize web-accessible databases into Yahoo!-like hierarchical classification schemes ...

4 [WSQ/DSQ: a practical approach for combined querying of databases and the Web](#) 
Roy Goldman, Jennifer Widom
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available:  pdf(223.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

5 [Database techniques for the World-Wide Web: a survey](#) 
Daniela Florescu, Alon Levy, Alberto Mendelzon
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

6 [Automating information overload: linking databases to the Web](#) 
Leonard A. White
November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready?**

Full text available:  pdf(613.10 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

7 [Surveys: Structured databases on the web: observations and implications](#) 
Kevin Chen-Chuan Chang, Bin He, Chengkai Li, Mitesh Patel, Zhen Zhang
September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3

Full text available:  pdf(393.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Web has been rapidly "deepened" by the prevalence of databases online. With the potentially unlimited information hidden behind their query interfaces, this "deep Web" of searchable databases is clearly an important frontier for data access. This paper surveys this relatively unexplored frontier, measuring characteristics pertinent to both exploring and integrating structured Web sources. On one hand, our "macro" study surveys the deep Web at large, in April 2004, adopting the random IP-sa ...

8 [Web crawling and exploration: A two-phase sampling technique for information extraction from hidden web databases](#) 
Y. L. Hedley, M. Younas, A. James, M. Sanderson
November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Full text available:  pdf(563.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hidden Web databases maintain a collection of specialised documents, which are dynamically generated in response to users' queries. However, the documents are generated by Web page templates, which contain information that is irrelevant to queries. This paper presents a Two-Phase Sampling (2PS) technique that detects templates and extracts query-related information from the sampled documents of a database. In the first phase, 2PS queries databases with terms contained in their search interfac ...

Keywords: document sampling, hidden web databases, information extraction

9 [Querying web metadata: Native score management and text support in databases](#) 
 Gültekin Özsoyoğlu, Ismail Sengör Altingövde, Abdullah Al-Hamdani, Selma Ayşe Özel, Özgür Ulusoy, Zehra Meral özsoyoğlu
 December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Full text available:  pdf(737.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we discuss the issues involved in adding a native score management system to object-relational databases, to be used in querying Web metadata (that describes the semantic content of Web resources). The Web metadata model is based on topics (representing entities), relationships among topics (called *metalinks*), and importance scores (sideway values) of topics and metalinks. We extend database relations with scoring functions and importance scores. We add to SQL score-manag ...

Keywords: Score management for Web applications

10 [Evaluating top-*k* queries over web-accessible databases](#) 
 Amélie Marian, Nicolas Bruno, Luis Gravano
 June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A query to a web search engine usually consists of a list of keywords, to which the search engine responds with the best or "top" *k* pages for the query. This top-*k* query model is prevalent over multimedia collections in general, but also over plain relational data for certain applications. For example, consider a relation with information on available restaurants, including their location, price range for one diner, and overall food rating. A user who queries such a relation might ...

Keywords: Parallel query processing, query optimization, top-*k* query processing, web databases.

11 [Workshop on testing, analysis and verification of web services \(TAV-WEB\) papers: Testing web database applications](#) 
 Yuetang Deng, Phyllis Frankl, Jiong Wang
 September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Full text available:  pdf(110.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Commercial, scientific, and social activities are increasingly becoming dependent on Web database applications. New testing techniques that handle the unique features of these systems are needed. To that end, we have extended AGENDA, a tool set for testing relational database applications, to test web database applications. Application source code is analyzed to extract relevant information about the URLs and their parameters. This information is used to construct and simplify a graph in which n ...

Keywords: database, software testing, web application

12 A security paradigm for Web databases

Chuanxue Bi, Nenad Jukic

April 1999 **Proceedings of the 37th annual Southeast regional conference (CD-ROM)**Full text available:  pdf(24.52 KB) Additional Information: full citation, index terms**13 OAI application: Extending SDARTS: extracting metadata from web databases and interfacing with the open archives initiative**

Panagiotis G. Ipeirotis, Tom Barry, Luis Gravano

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**Full text available:  pdf(303.33 KB) Additional Information: full citation, abstract, references, index terms

SDARTS is a protocol and toolkit designed to facilitate metasearching. SDARTS combines two complementary existing protocols, SDLIP and STARTS, to define a uniform interface that collections should support for searching and exporting metasearch-related metadata. SDARTS also includes a toolkit with wrappers that are easily customized to make both local and remote document collections SDARTS-compliant. This paper describes two significant ways in which we have extended the SDARTS toolkit. First, we ...

Keywords: SDLIP, distributed searching, metadata, metasearching, web databases, wrapper construction

14 Exploring the tradeoff between performance and data freshness in database-driven Web servers

Alexandros Labrinidis, Nick Roussopoulos

September 2004 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 13 Issue 3Full text available:  pdf(387.89 KB) Additional Information: full citation, abstract, index terms

Personalization, advertising, and the sheer volume of online data generate a staggering amount of dynamic Web content. In addition to Web caching, view materialization has been shown to accelerate the generation of dynamic Web content. View materialization is an attractive solution as it decouples the serving of access requests from the handling of updates. In the context of the Web, selecting which views to materialize must be decided online and needs to consider both performance and data fresh ...

15 Data mining and database technology: Using metadata for developing automated Web system interface

Abdualrraouf A. Elbibas, M. J. Ridley

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies**Full text available:  pdf(106.69 KB) Additional Information: full citation, abstract, references

In this paper we look into implementing a web interface design for applications that have a database element, we look at how and to what extent we can use information (Metadata) held in system catalog tables in databases to produce a better and automated Web interface that can easily accommodate changes in the underlying data model by altering those tables, rather than requiring changes to the interface code. We use Java and particularly Java Database Connectivity (JDBC), which provides a very g ...

Keywords: Java Database Connectivity (JDBC), Web system interface, metadata, relational database

16 Implementation of a dynamic Web database interface using cold fusion

Gary Hutchinson, Greg Baur, Darleen Pigford

October 1998 **Proceedings of the 26th annual ACM SIGUCCS conference on User services**Full text available:  pdf(399.49 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**17 DBMS course: web based database administration tool and class projects**

Sub Ramakrishnan, Emeka Nwosu

January 2003 **ACM SIGCSE Bulletin , Proceedings of the 34th SIGCSE technical symposium on Computer science education**, Volume 35 Issue 1Full text available:  pdf(219.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss a software tool we have developed for use in undergraduate DBMS courses, that provides: (i) a web-enabled database set up and administration facility for faculty use, and (ii) web-based database projects that may be assigned to students. We discuss the motivation for our work and the objectives underlying the design of the tool. The significance of our work is two-fold. First, it should help the instructor in the set up, management, and monitoring of student database acc ...

Keywords: client-server communication, database, user interface, web-based techniques

18 Webquery: a simple web-enabled system for database management

Ping Wang, Qingru Zhang

March 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 4Full text available:  pdf(586.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many existing tools support developing Web-enabled database interfaces. However, most of these tools are limited in the sense that they only work with a particular database product or Web server. In this paper, we describe WebQuery, a system for defining such interfaces that runs under any popular operating system, works with any Web server that supports CGI scripting and is compatible with many different database systems. The WebQuery system supports defining data (tables), defining queries, ex ...

19 Applications of Java programming: Automatic code generation for database-oriented web applications

Branko Milosavljević, Milan Vidaković, Zora Konjović

June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002**Full text available:  pdf(448.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper presents an architecture for database-oriented web applications. Then it introduces concepts which form a foundation for a code generation tool that supports the software construction process in the web application domain. The tool follows simple rules about mapping JavaBean components to the database schema and generates components, as well as a set of standardized JSP pages. The mapping is specified as an instance of an XML Schema document presented here. Efficiency of this tool is a ...

20 Developing integrated Web and database applications using JAVA applets and JDBC drivers

Andrew Yang, James Linn, David Quadrato

March 1998 **ACM SIGCSE Bulletin , Proceedings of the twenty-ninth SIGCSE technical symposium on Computer science education**, Volume 30 Issue 1

Full text available:  pdf(551.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the maturity of network technology, the deterministic factor of a 'successful' web site does not as much depend on its connectivity to the Internet, rather the content of web pages plays a more important role. The inclusion of dynamic data, for example, has become an increasingly desirable feature of a web page. Web servers that support dynamic web pages are capable of retrieving data at the time of user requests. Rather than being statically included in the web page, these dynamically retr ...

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1 [Applications of Java programming: Automatic code generation for database-oriented web applications](#) 

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The paper presents an architecture for database-oriented web applications. Then it introduces concepts which form a foundation for a code generation tool that supports the software construction process in the web application domain. The tool follows simple rules about mapping JavaBean components to the database schema and generates components, as well as a set of standardized JSP pages. The mapping is specified as an instance of an XML Schema document presented here. Efficiency of this tool is a ...

2 [Technical and art demonstrations session 2: METIS: a flexible database foundation for unified media management](#) 

Ross King, Niko Popitsch, Utz Westermann

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**Full text available:  [pdf\(121.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia database systems largely focus on specific media types and/or application domains. This paper gives a sketch of METIS, a database solution for the unified management of any kind of digital media, characterized by profound customizability for domain or application needs. The system core is based on an expressive data model that can be adapted to any scheme for media management, description, and classification desired, and can accommodate arbitrary query operators, similarity ...

Keywords: multimedia database systems, unified media management

3 [Virtual database technology](#) 

Ashish Gupta, Venky Harinarayan, Anand Rajaraman
December 1997 **ACM SIGMOD Record**, Volume 26 Issue 4Full text available:  [pdf\(400.13 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

4 Industrial papers: databases and service oriented architectures: Model-driven design of  service-enabled web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Roberto Acerbis, Aldo Bongio

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(379.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Significant efforts are currently invested in application integration to enable the interaction and composition of business processes of different companies, yielding complex; multi-party processes. Web service standards, based on WSDL, have been adopted as a process-to-process communication paradigm. This paper presents an industrial experience in integrating data-intensive and process-intensive Web applications through Web services.

Design of sites and of Web services interaction exploits mode ...

5 Industrial sessions: big data: The SDSS skyserver: public access to the Sloan digital sky server data 

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.48 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

6 Payroll made easy: developing a Web based system for student employee payroll 

William S. Thieke

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future**

Full text available:  pdf(258.04 KB) Additional Information: [full citation](#), [index terms](#)

Keywords: Filemaker Pro., automation, database publication to the Web, dynamic Web pages, payroll

7 Data Management: Beyond the Traditional: The Enosys Markets data integration platform: lessons from the trenches 

Yannis Papakonstantinou, Vasilis Vassalos

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available:  pdf(966.55 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Enosys Markets offers a state-of-the-art data integration software platform to support the development of the next generation of eBusiness applications that deliver value by providing new levels of function for customer relationship management, e-commerce, supply chain management, and decision support. These applications require that data be integrated from information sources that exist both within and across organizational boundaries. The Enosys Markets data integration architecture and produc ...

Keywords: XML, distributed querying, heterogeneous databases, integration, mediators, query forms, reports, semistructured data

8 [sTeam: structuring information in team-distributed knowledge management in cooperative learning environments](#) 

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(179.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Learning is a socially embedded design process. But most of todays hypermedia systems fail to properly support the design-related and the social aspects of learning. Authoring and Web-publishing systems aim to support the authors design processes. Consequently, the activities of learners are confined to selecting and reading. Based on some fundamental reflections on the role of technology in learning processes, we conclude that top priority must be given to the construction of infrastructur ...

Keywords: cooperative learning, cooperative support, learner-centered approaches, sTeam (structuring information in a team), web-based learning and teaching

9 [sTeam - Designing an integrative infrastructure for Web-based computer-supported cooperative learning](#) 

Thorsten Hampel, Reinhard Keil-Slawik

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  pdf(265.67 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: cooperation support, cooperative learning, learner-centered approaches, sTeam - structuring information in a team, web-based learning and teaching

10 [Designing wrapper components for e-services in integrating heterogeneous systems](#) 

Massimo Mecella, Barbara Pernici

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 10 Issue 1

Full text available:  pdf(292.68 KB)

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Keywords: Component, Cooperation, Integration, Legacy system, Wrapper, e-application, e-service

11 [edesk online—internal development and deployment of help desk management software](#) 

Charlie Hitlin, Catherine Roy, Dean Tallman

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future**

Full text available:  pdf(34.72 KB)

Additional Information: [full citation](#), [index terms](#)

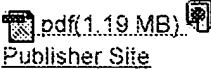
Keywords: Active Server Pages, call tracking, client-server database development, help desk, job tracking

12 Technical papers: software understanding: Hipikat: recommending pertinent software development artifacts

Davor Čubranić, Gail C. Murphy

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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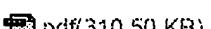
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13 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components

E. Damiani, M. G. Fugini, C. Bellettini

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 8 Issue 4

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

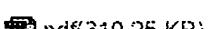
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Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

15 Flexible consistency checking

Christian Nentwich, Wolfgang Emmerich, Anthony Finkelstein, Ernst Ellmer

January 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 12 Issue 1

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of managing the consistency of heterogeneous, distributed software engineering documents is central to the development of large and complex systems. We show how this problem can be addressed using xlinkit, a lightweight framework for consistency checking that leverages standard Internet technologies. xlinkit provides flexibility, strong diagnostics, and support for distribution and document heterogeneity. We use xlinkit in a comprehensive case study that demonstrates how design, impl ...

Keywords: CASE tools, consistency management, constraint checking, multiple perspectives

16 Instant messaging and course diaries 

Matthew M. Burke

May 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 5

Full text available:  pdf(118.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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17 Service deployment for virtual enterprises 

J. Yang, W. J. van den Heuvel, M. P. Papazoglou

January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6

Full text available:  pdf(892.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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18 The Satchel system architecture: mobile access to documents and services 

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available:  pdf(207.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile professionals require access to documents and document‐related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face‐to‐face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

19 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools 

Jack Greenfield, Keith Short

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(707.51 KB\)](#) [terms](#)

The confluence of component based development, model driven development and software product lines forms an approach to application development based on the concept of software factories. This approach promises greater gains in productivity and predictability than those produced by incremental improvements to the current paradigm of object orientation, which have not kept pace with innovation in platform technology. Software factories promise to make application assembly more cost effective thro ...

Keywords: design patterns, domain-specific languages, model-driven development, software factories, software product lines

20 [Defining and exploring an efficient distributed process for the reuse of Ada software components and tools in a global theater: the Public Ada Library](#) 

Richard Conn

July 1997 **ACM SIGAda Ada Letters**, Volume XVII Issue 4

Full text available:  [pdf\(431.41 KB\)](#) Additional Information: [full citation](#), [index terms](#)

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Relevance scale

1 Web-based simulation: Managing event traces for a web front-end to a parallel simulation

Boon Ping Gan, Li Liu, Zhengrong Ji, Stephen J. Turner, Wentong Cai

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(279.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To enhance the widespread use of a parallel supply chain simulator, a web front-end that enables access at any time and from any location has been developed. The front-end provides the capability of model uploading, simulation runs initiation, simulation activities visualization, and simulation statistics collection. Visualizing the simulation activities requires the parallel simulator to record event traces to the file system for displaying purposes. To minimize the negative impact of the recor ...

2 Libraries' new role in electronic scholarly publishing

Andrew E. Treloar

April 1998 **Communications of the ACM**, Volume 41 Issue 4Full text available: pdf(156.35 KB) Additional Information: [full citation](#), [index terms](#)

3 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools

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Keywords: design patterns, domain-specific languages, model-driven development, software factories, software product lines

4 Designing wrapper components for e-services in integrating heterogeneous systems

Massimo Mecella, Barbara Pernici

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 10 Issue 1Full text available:  pdf(292.68 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

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5 Managing Intranet technology in an organizational context: toward a "stages of growth" model for balancing empowerment and control

Aidan Duane, Pat Finnegan

December 2000 **Proceedings of the twenty first international conference on Information systems**Full text available:  pdf(194.59 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**6 Technical and art demonstrations session 2: METIS: a flexible database foundation for unified media management**

Ross King, Niko Popitsch, Utz Westermann

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**Full text available:  pdf(121.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia database systems largely focus on specific media types and/or application domains. This paper gives a sketch of METIS, a database solution for the unified management of any kind of digital media, characterized by profound customizability for domain or application needs. The system core is based on an expressive data model that can be adapted to any scheme for media management, description, and classification desired, and can accommodate arbitrary query operators, similarity ...

Keywords: multimedia database systems, unified media management

7 Industrial papers: databases and service oriented architectures: Model-driven design of service-enabled web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Roberto Acerbis, Aldo Bongio

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**Full text available:  pdf(379.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Significant efforts are currently invested in application integration to enable the interaction and composition of business processes of different companies, yielding complex; multi-party processes. Web service standards, based on WSDL, have been adopted as a process-to-process communication paradigm. This paper presents an industrial experience in integrating data-intensive and process-intensive Web applications through Web services.

Design of sites and of Web services interaction exploits mode ...

8 Posters: PDLib: personal digital libraries with universal access

Francisco Alvarez-Cavazos, David A. Garza-Salazar, Juan C. Lavariega-Jarquin

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(189.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a universally available personal digital library system. It is "personal" in the sense that each user is provided with a general purpose document repository (i.e. a personal digital library). It is "universally available" in the sense that it allows the user to access her/his personal personal digital library from most computing devices connected to the Internet, including mobile phones, PDAs and laptops, therefore granting access "from anyplace at anytime."

Keywords: mobile environment, personal libraries, system architecture, universal access

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Jason Hill, Mike Horton, Ralph Kling, Lakshman Krishnamurthy

June 2004 **Communications of the ACM**, Volume 47 Issue 6

Full text available:  pdf(155.72 KB)  html(29.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

All emphasize low-cost components operating on shoestring power budgets for years at a time in potentially hostile environments without hope of human intervention.

11 Versioning and fragmentation: Fine-grained, structured configuration management for web projects

Tien Nhut Nguyen, Ethan Vincent Munson, Cheng Thao

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(698.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Researchers in Web engineering have regularly noted that existing Web application development environments provide little support for managing the evolution of Web applications. Key limitations of Web development environments include line-oriented change models that inadequately represent Web document semantics and in ability to model changes to link structure or the set of objects making up the Webapplication. Developers may find it difficult to grasp how theoverall structure of the Web applica ...

Keywords: software configuration management, version control, web engineering

12

HTTPExplorer: exploring the hypertext transfer protocol

Volker Turau

June 2003 **ACM SIGCSE Bulletin , Proceedings of the 8th annual conference on Innovation and technology in computer science education**, Volume 35 Issue 3

Full text available:  pdf(942.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents HTTPExplorer, an interactive tool to explore the Hypertext Transfer Protocol. The intention is to use the tool in a course on web-based applications to support the learning of HTTP, the most significant protocol used on the internet today. A web-based user-interface allows students to contact any HTTP-Server connected to the internet, to issue a request and to make the data flow between a client and the server completely visible. The tool can be used by novices to get first e ...

Keywords: HTTP, WWW, e-learning, simulator

13 Review: Astaro security Linux v4

Jeremy Impson

July 2003 **Linux Journal**, Volume 2003 Issue 111

Full text available:  html(11.22 KB) Additional Information: [full citation](#)



14 Flexible consistency checking

Christian Nentwich, Wolfgang Emmerich, Anthony Finkelstein, Ernst Ellmer

January 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 1

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: CASE tools, consistency management, constraint checking, multiple perspectives

15 Multimedia issues in digital libraries: How fast is too fast?: evaluating fast forward surrogates for digital video

Barbara M. Wildemuth, Gary Marchionini, Meng Yang, Gary Geisler, Todd Wilkens, Anthony Hughes, Richard Gruss

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(317.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



To support effective browsing, interfaces to digital video libraries should include video surrogates (i.e., smaller objects that can stand in for the videos in the collection, analogous to abstracts standing in for documents). The current study investigated four variations (i.e., speeds) of one form of video surrogate: a fast forward created by selecting every Nth frame from the full video. In addition, it tested the validity of six measures of user performance when interacting with video surrog ...

16 Beyond the classroom: Corporate clips

Janet Hartman



June 2003 **ACM SIGCSE Bulletin**, Volume 35 Issue 2

Full text available:  pdf(233.40 KB) Additional Information: [full citation](#)



17 Technical papers: software understanding: Hipikat: recommending pertinent software development artifacts

Davor Čubranić, Gail C. Murphy

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available:  pdf(1.19 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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18 A Linux-based steam turbine test bench

Alexandr E. Bravo

February 2003 **Linux Journal**, Volume 2003 Issue 106

Full text available:  html(13.82 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

From safety controls to a convenient web front end, Linux is an essential part of this lab.



19 Applications of Java programming: Automatic code generation for database-oriented web applications

Branko Milosavljević, Milan Vidaković, Zora Konjović

June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002**

Full text available:  pdf(448.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The paper presents an architecture for database-oriented web applications. Then it introduces concepts which form a foundation for a code generation tool that supports the software construction process in the web application domain. The tool follows simple rules about mapping JavaBean components to the database schema and generates components, as well as a set of standardized JSP pages. The mapping is specified as an instance of an XML Schema document presented here. Efficiency of this tool is a ...



20 Web mining, tools, and performance evaluation: The catacomb project: building a user-centered portal the conversational way

Mark Ginsburg

November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Full text available:  pdf(239.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Enterprise computing is marked by large-scale information systems, such as databases, document management, and groupware that present significant obstacles to consistent cross-application use: dissimilar user interfaces, incompatible security schemes, and the undesirable property of serving only parts of the user community (islands of use) and accessing only some of the enterprise knowledge assets (islands of information). World Wide Web (WWW) architectures do not solve this problem directly. WWW ...

Keywords: ALICE, conversational portal, portal design, query routing

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Relevance scale **1 Service deployment for virtual enterprises**

J. Yang, W. J. van den Heuvel, M. P. Papazoglou

January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6Full text available:  [pdf\(692.19 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#) [Publisher Site](#)

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2 Beyond the classroom: Corporate clips

Janet Hartman

June 2003 **ACM SIGCSE Bulletin**, Volume 35 Issue 2Full text available:  [pdf\(233.40 KB\)](#) Additional Information: [full citation](#)**3 Designing wrapper components for e-services in integrating heterogeneous systems**

Massimo Mecella, Barbara Pernici

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1Full text available:  [pdf\(292.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

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4 Technical and art demonstrations session 2: METIS: a flexible database foundation for

unified media management

Ross King, Niko Popitsch, Utz Westermann

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Full text available:  pdf(121.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: multimedia database systems, unified media management

5 Virtual database technology

Ashish Gupta, Venky Harinarayan, Anand Rajaraman

December 1997 **ACM SIGMOD Record**, Volume 26 Issue 4

Full text available:  pdf(400.13 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

6 Industrial papers: databases and service oriented architectures: Model-driven design of service-enabled web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Roberto Acerbis, Aldo Bongio

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(379.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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7 Spatio-temporal database support for legacy applications

Michael Böhlen, Christian S. Jensen, Bjørn Skjellaug

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available:  pdf(955.80 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SQL, language design, legacy software, multi-dimensional data, spatial, spatio-temporal data, temporal

8 HODFA: an architectural framework for homogenizing heterogeneous legacy databases

Kamalakar Karlapalem, Qing Li, Chung-Dak Shum

March 1995 **ACM SIGMOD Record**, Volume 24 Issue 1

Full text available:  pdf(653.76 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One of the main difficulties in supporting global applications over a number of localized databases and migrating legacy information systems to modern computing environment is

to cope with the heterogeneities of these systems. In this paper, we present a *novel flexible architecture* (called HODFA) to dynamically connect such localized heterogeneous databases in forming a *homogenized federated database system* and to support the process of transforming a collection of heterogeneous in ...

9 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components

E. Damiani, M. G. Fugini, C. Bellettini

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 8 Issue 4

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Volume 8 Issue 3

Full text available:  pdf(310.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

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Christian Nentwich, Wolfgang Emmerich, Anthony Finkelstein, Ernst Ellmer

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Keywords: CASE tools, consistency management, constraint checking, multiple perspectives

12 Harp: a distributed query system for legacy public libraries and structured databases

Ee-Peng Lim, Ying Lu

July 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 3

Full text available:  pdf(196.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main purpose of a digital library is to facilitate users easy access to enormous amount of globally networked information. Typically, this information includes preexisting public library catalog data, digitized document collections, and other databases. In this article, we describe the distributed query system of a digital library prototype system known as HARP. In the HARP project, we have designed and implemented a distributed query processor and its query front-end to support integr ...

Keywords: Internet databases, digital libraries, interoperable databases

**13 Wireless sensor networks: The platforms enabling wireless sensor networks**

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**14 Integrating legacy systems with modern corporate applications**

Paul Robertson

May 1997 **Communications of the ACM**, Volume 40 Issue 5

Full text available:  pdf(391.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**15 Putting it together: Web services for the people**

Win Treese

December 2002 **netWorker**, Volume 6 Issue 4

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**16 Session 3: Techniques and applications of software evolution: Recycling software components extracted from legacy programs**

Harry M. Sneed

September 2001 **Proceedings of the 4th International Workshop on Principles of Software Evolution**

Full text available:  pdf(690.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper depicts yet another approach to cope with legacy software systems, a struggle that began already in the early 1980's with the development of the first restructuring tools and has continued throughout the last 20 years with only modest success. In the meantime, reengineering technology has subsided and is now in the process of being replaced by new techniques aimed towards the reuse of existing software in modern distributed architectures. Such reuse presupposes a recycling process to ...

Keywords: measurement, reengineering, reuse, slicing, software recycling, wrapping

17 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(165.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance.

Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

18 Legacy systems and object technology: workshop summary

YeoNa Jang

October 1995 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings of the 10th annual conference on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 6 Issue 4

Full text available:  pdf(482.25 KB) Additional Information: [full citation](#)

19 Legacy object modeling speeds software integration

W. B. Noffsinger, Robert Niedbalski, Michael Blanks, Niall Emmart

December 1998 **Communications of the ACM**, Volume 41 Issue 12

Full text available:  pdf(620.20 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Bioinformatics (BIO): PVIN: a scalable and flexible system for visualizing pedigree databases

Eric A. Wernert, Jagannathan LakshmiPathy

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Full text available:  pdf(235.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the design and implementation of PVIN (Pedigree Visualization and Navigation), a scalable and flexible software system that enables the visualization, analysis, and printing of hierarchical relations typically stored in relational databases. Although the concept of visualizing and printing pedigree databases is not new, we have developed a novel implementation based on modern approaches for several important reasons: (1) Our university's center of hereditary diseases has accumulated ...

Keywords: databases, hereditary diseases, information visualization, pedigrees, tree drawing

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A hierarchy-aware approach to faceted classification of object-oriented components

Full text [PDF \(310 KB\)](#)**Source** [ACM Transactions on Software Engineering and Methodology \(TOSEM\) archive](#)Volume 8, Issue 3 (July 1999) [table of contents](#)

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↑ ABSTRACT

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conventional object libraries, the characteristics are extracted semiautomatically from class interfaces. Characteristics are term pairs, weighted to represent "how well" they describe component behavior. The set of characteristics associated with a given component forms its software descriptor. A descriptor base is presented where descriptors are organized on the basis of structured relationships, such as similarity and composition. The classification is supported by a thesaurus acting as a language-independent unified lexicon. The descriptor base is conceived for developers who, besides conventionally browsing the descriptors hierarchy, can query the system, specifying a set of desired functionalities and getting a ranked set of adaptable candidates. User feedback is taken into account in order to progressively ameliorate the quality of the descriptors according to the views of the user community. Feedback is made dependent of the user typology through a user profile. Experimental results in terms of recall and precision of the retrieval mechanism against a sample code base are reported.

↑ REFERENCES

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D. Vijay Rao , V. V. S. Sarma, A rough-fuzzy approach for retrieval of candidate components for software reuse, *Pattern Recognition Letters*, v.24 n.6, p.875-886, March 2003

Fabio A. Schreiber , Alberto Belussi , Valeria De Antonellis , Maria Grazia Fugini , Giuseppe Pozzi , Letizia Tanca , Luca Tosi, The design of a web-geographical information system: an experience in the integration of territorial reclamation support services. *Web-enabled systems integration: practices and challenges*, Idea Group Publishing, Hershey, PA, 2003

C. Bellettini , E. Damiani , M. G. Fugini, User opinions and rewards in a reuse-based development system, *Proceedings of the 1999 symposium on Software reusability*, p.151-158, May 21-23, 1999, Los Angeles, California, United States

↑ INDEX TERMS

Primary Classification:

H. Information Systems

↳ H.3 INFORMATION STORAGE AND RETRIEVAL

General Terms:

Documentation

Keywords:

code analysis, component repositories, component retrieval, software reuse, user feedback

↑ REVIEW

"Friedrich Gebhardt"

The task considered here is to index and retrieve software components from an object-oriented software library. Indexing is by verb-noun pairs, such as "Get Document" or "Restore Cursor." These descriptors, called features, are initially taken automatically from the software code: essentially, the system combines each method provided by the software component with its first argument. The details differ depending on the library type; libraries are either conventional software libraries or application frameworks. Each descriptor is given a weight. The hierarchy provided by the library is also exploited. The descriptors and weights may be changed by the application engineer. Consistency in the choice of features is essential, and is achieved, for instance, by a naming discipline in the software library. The retrieval index is divided into several parts, called facets, which are defined by the application engineer. A software component may have descriptors in one or more facets; identical descriptors may appear in several facets; and a search may cover one or more facets. An affinity between descriptors, wrongly called "synonymy," is computed for expanding queries. Some ideas for user feedback are added. The retrieval experiments described essentially use five queries on 95 software components. Unfortunately, the text is often unclear or incomplete. For instance, the definition of descriptors mentions elements C1 to CC without explaining what they mean. Some figures are incomprehensible, in part due to missing letters (probably because of some software incompatibility). While one may guess that "emove" should read "Remove," the meanings of "odiy" (Modify) and "D cIte" (DocItem) are harder to figure out, and other terms remain mysterious. *Online Computing Reviews Service*

↑ Collaborative Colleagues:

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